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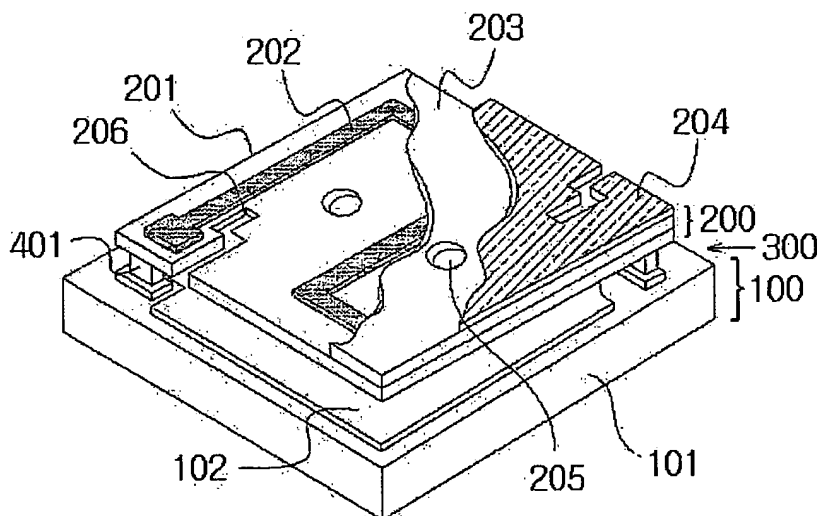
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(54) Title: **BOLOMETRIC INFRARED SENSOR HAVING TWO LAYER STRUCTURE AND METHOD FOR MANUFACTURING THE SAME**



(57) Abstract: The present disclosure is related to bolometric infrared sensors having a two-layer structure and methods for manufacturing the same for improving an absorption rate by a spectroscopic design for resonantly absorbing infrared, and preventing the deformation of a sensor caused by stresses due to heat. The infrared sensor including an ROIC substrate and several pixels, comprises: a bottom layer including a reflective metal layer on the ROIC substrate; a cavity for resonantly absorbing infrared ray over the bottom layer; an upper layer of a sandwich shape including an absorption-transmission layer having a cutting area in the middle thereof and a bolometer layer placed both on and under the absorption-transmission layer; and anchors positioned at the edges of the pixel for supporting the upper layer and functioning as electrodes.



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